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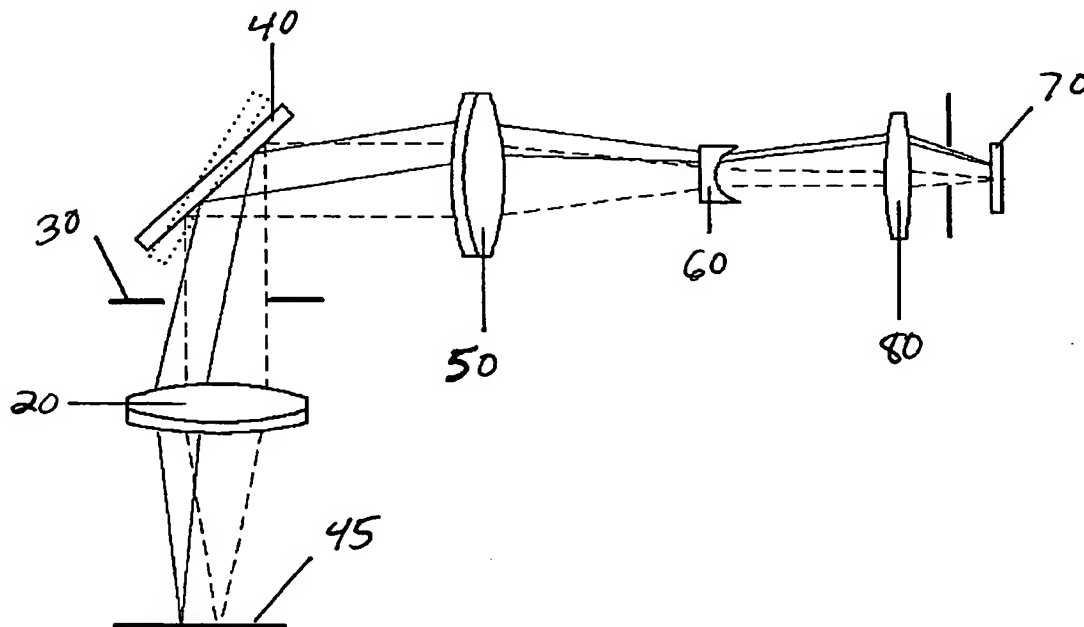
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(54) Title: MICROSCOPE WITH EXTENDED FIELD OF VISION



(57) Abstract: An optical system is provided for creating a mosaic image of a large field of view through a microscope at fast refresh rates of about 25 Hz with a high resolution that is free of blurring or aberrations. The optical system includes an objective lens assembly (20), an iris (30), one or more scanning mirrors (40) for high-speed scanning, one or more imaging lenses and irises (50, 60, 80), and a high-speed imaging device (70) arranged in that order from an object. The optical system also includes a mechanism for processing and constructing scanned and captured images into a mosaic image.



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US CL : 359/202-203, 215-221, 363, 368-390

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields
searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Extra Sheet.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,672,880 A (KAIN) 30 September 1997 (30.09.1997), columns 3-6; figures 2-4.	1-24
Y	US 6,226,392 B1 (BACUS et al) 01 May 2001 (01.05.2001), columns 4-5, 8-10; figures 1-11.	1, 7-9, 11, 12, 14-17, 19-24
Y	US 6,429,967 B1 (AMOS) 06 August 2002 (06.08.2002), columns 3-4; figures 2-3.	4-6, 10, 13, 18
Y	US 6,248,995 B1 (TANAAMI et al) 19 June 2001 (19.06.2001), column 2; figure 2.	1-24

☐ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

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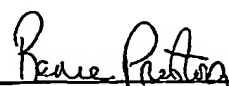
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